

BRUHAT BANGLORE MAHANAGARA PALIKE



**DASARAHALLI-ZONE**

**T.DASARAHALLI-SUB-DIVISION.**

**Name of Work:** *Improvements to Road, Drain, Foot path 1st & 2nd Cross & cross roads at Ashok Nagara in Bagalagunte ward No 14*

**Estimate Cost :- 15.00 Lakhs**

# BRUHAT BANGALORE MAHANAGARA PALIKE

## DASARAHALLI ZONE

**Name of Work :- Improvements to Road, Drain, Foot path 1st & 2nd Cross & cross roads at Ashok Nagara in Bagalagunte ward No 14**

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | Est. Cost Rs. |        |      |              | 15.00         | Lakhs         |                  |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|--------|------|--------------|---------------|---------------|------------------|
| Sl. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit           | No            | L      | B    | D            | Qty           | Rate          | Amount           |
| 1   | KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-2. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.152/I.19.2 PW, P & IWTD - SR 2013-14)                                                                                                                                                                                   | Cum            |               |        |      |              |               |               |                  |
|     | UGD Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |               |        |      |              |               |               |                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 1             | 168.00 | 5.00 | 0.35         | 294.00        |               |                  |
|     | Desiting of Drains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 1             | 225.00 | 0.50 | 0.60         | 67.50         |               |                  |
|     | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84.00          |               |        |      |              | 361.50        | 90.72         | 32795.00         |
|     | Add Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.72           |               |        |      |              |               |               |                  |
|     | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>90.72</b>   |               |        |      |              |               |               |                  |
| 2   | KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to <b>wet mix macadam</b> Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications.MORTH Specification No. 406 <b>Page No. 170/ Item No. 20.18/ PWD SR 2013-14</b>                                                                                                                    | Cum            |               |        |      |              |               |               |                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 1             | 168.00 | 5.00 | 0.25         | 210.00        |               |                  |
|     | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1038.00        |               |        |      |              | 210.00        | 1121.04       | 235418.00        |
|     | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 83.04          |               |        |      |              |               |               |                  |
|     | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>1121.04</b> |               |        |      |              |               |               |                  |
| 3   | KSRRB M500-15: Providing, laying and rolling with vibratory roller of built-up spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates using motor grader for aggregates. Key stone chips spreader may be used with application of bituminous binder after each layer, and with key aggregates placed on top of the second layer to serve as a base confirming to the line, grades and cross-section specified, the compacted layer thickness being 75mm Complete as per specifications. MORTH specification No. 506 <b>Page No.177/ Item No. 21.16/ PWD SR 2013-14</b> | Sqm            |               |        |      |              |               |               |                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 1             | 168.00 | 5.00 |              | 840.00        |               |                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |               |        |      | <b>Total</b> | <b>840.00</b> | <b>268.92</b> | <b>225893.00</b> |

*Signature*

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |               |      |       |        |         |           |     |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|---------------|------|-------|--------|---------|-----------|-----|
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 249.00  |   |               |      |       |        |         |           | (6) |
|   | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19.92   |   |               |      |       |        |         |           |     |
|   | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 268.92  |   |               |      |       |        |         |           |     |
| 4 | KSRB 500-7: Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 176/ Item No. 21.8/ PWD SR 2013-14                                                                                                                                                                                                                                                                                                                                                                                     | Sqm     |   |               |      |       |        |         |           |     |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | 1 | 168.00        | 5.00 |       | 840.00 |         |           |     |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20.10   |   |               |      |       | 840.00 | 21.71   | 18236.00  |     |
|   | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.61    |   |               |      |       |        |         |           |     |
|   | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 21.71   |   |               |      |       |        |         |           |     |
| 5 | KSRRB M500-17: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. With 80/100 grade bitumen using 40-60 HMP using Mechanical paver Page No. 178/ Item No. 21.20.5/ PWD SR 2013-14 | Cum     |   |               |      |       |        |         |           |     |
|   | 19th Cross roads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | 1 | 168.00        | 5.00 | 0.025 | 21.00  |         |           |     |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9069.00 |   |               |      |       | 21.00  | 9794.52 | 205685.00 |     |
|   | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 725.52  |   |               |      |       |        |         |           |     |
|   | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9794.52 |   |               |      |       |        |         |           |     |
| 6 | Carriage of Mixed Materials Page No. 186 Note PWD SR 2013-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |   | Qty item no.5 |      |       | 21.00  | 52.11   | 1094.00   |     |
|   | 1st to 2nd KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.75    |   |               |      |       |        |         |           |     |
|   | 2nd-5th KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.50   |   |               |      |       |        |         |           |     |
|   | 5th -10th KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 26.00   |   |               |      |       |        |         |           |     |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 48.25   |   |               |      |       |        |         |           |     |
|   | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.86    |   |               |      |       |        |         |           |     |
|   | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52.11   |   |               |      |       |        |         |           |     |
| 7 | KSRB 4-1.6: Providing and laying in position plain cement concrete of mix M15 with OPC cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2013-14)                                                                                                                                                                                                                                 | Cum     |   |               |      |       |        |         |           |     |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | 1 | 168.00        | 0.20 | 0.20  | 6.72   | 4690.50 | 31520.00  |     |
|   | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4425.00 |   |               |      |       |        |         |           |     |
|   | Add Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 265.50  |   |               |      |       |        |         |           |     |
|   | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4690.50 |   |               |      |       |        |         |           |     |

June

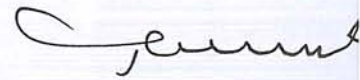
|                                    |                                                                                                                                                                                                                                                                                                                                                                               |               |                     |        |      |  |        |              |                   |   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|--------|------|--|--------|--------------|-------------------|---|
| 8                                  | Providing & fixing pre cast solid concrete Kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete of size 450x20x400 mm Page No. 28/ Item NO. 5.29/1, PWD SR 2013-14                                                                                                                                | No            |                     |        |      |  |        |              |                   | 7 |
|                                    | 19th cross both side                                                                                                                                                                                                                                                                                                                                                          |               |                     |        |      |  |        |              |                   |   |
|                                    | 168/.45=                                                                                                                                                                                                                                                                                                                                                                      |               | 2                   | 374.00 |      |  | 748.00 | 316.44       | 236697.00         |   |
|                                    | Basic Rate                                                                                                                                                                                                                                                                                                                                                                    | 293.00        |                     |        |      |  |        |              |                   |   |
|                                    | Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                             | 23.44         |                     |        |      |  |        |              |                   |   |
|                                    | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                  | <b>316.44</b> |                     |        |      |  |        |              |                   |   |
| 9                                  | Supplying and fixing precast reinforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.                  | Sqm           |                     |        |      |  |        |              |                   |   |
|                                    | <b>Data Rates Approved by CE DZ</b>                                                                                                                                                                                                                                                                                                                                           |               | 2                   | 168.00 | 0.90 |  | 302.40 | 1600.00      | 483840.00         |   |
| 10                                 | Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 150 Item No. 17.1 PWD SR 2013-14 | Cum           |                     |        |      |  |        |              |                   |   |
|                                    |                                                                                                                                                                                                                                                                                                                                                                               |               | Qty Vide Item No. 1 |        |      |  | 361.50 | 78.24        | 28282.00          |   |
|                                    | 2 x 1.28 x 4 Kmtrs                                                                                                                                                                                                                                                                                                                                                            | 10.24         |                     |        |      |  |        |              |                   |   |
|                                    |                                                                                                                                                                                                                                                                                                                                                                               | 62.20         |                     |        |      |  |        |              |                   |   |
|                                    | Basic Rate                                                                                                                                                                                                                                                                                                                                                                    | 72.44         |                     |        |      |  |        |              |                   |   |
|                                    | Add Area Weightage 8%                                                                                                                                                                                                                                                                                                                                                         | 5.80          |                     |        |      |  |        |              |                   |   |
|                                    | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                  | <b>78.24</b>  |                     |        |      |  |        |              |                   |   |
| 11                                 | Miscellaneous and Unforeseen Charges etc., complete                                                                                                                                                                                                                                                                                                                           | LS            |                     |        |      |  |        |              | 540.00            |   |
|                                    |                                                                                                                                                                                                                                                                                                                                                                               |               |                     |        |      |  |        | <b>Total</b> | <b>1500000.00</b> |   |
| <b>(Rupees Fifteen Lakhs Only)</b> |                                                                                                                                                                                                                                                                                                                                                                               |               |                     |        |      |  |        |              |                   |   |

#### CERTIFICATE

- 1) The Work spot has been inspected and the work is found to be necessary
- 2) The Estimate is prepared as per the PW,P & IWTD - SR - 2013-14
- 3) The Provision made in estimate are adequate and essential
- 4) This area comes under B.B.M.P Limits.

  
Assistant Engineer  
Ward No.14

  
Asst.Executive Engineer  
T.Dasarahalli Sub-Division  
B.B.M.P. Bangalore.

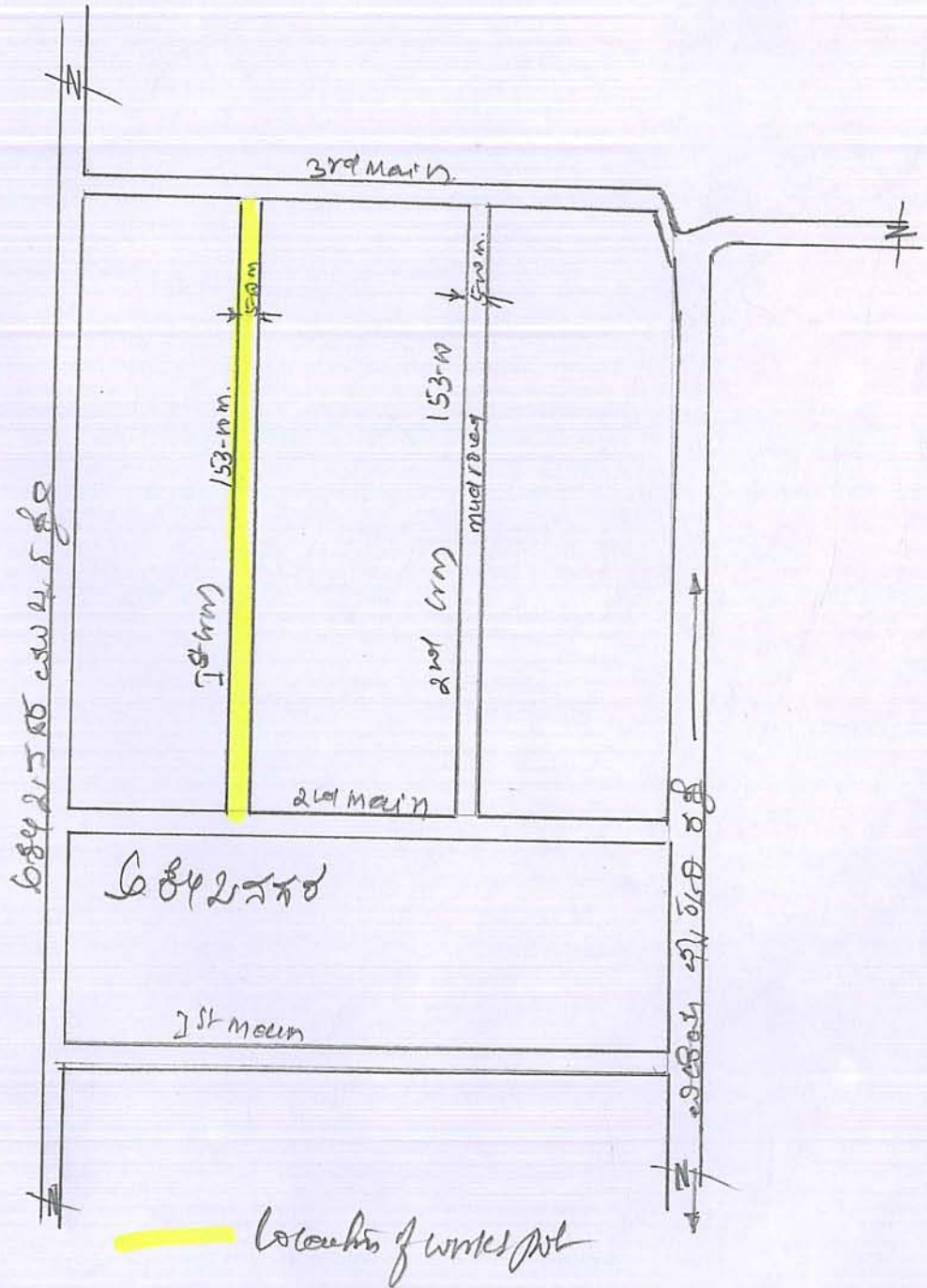
  
Executive Engineer  
Dasarahalli Division  
B.B.M.P. Bangalore

**A/S**  
ನಂ. JC(DH) AS 274/13-14  
ರೂ. 15.00 lakhs (Rupees Fifteen lakhs only)  
ಪುಟ ನಂ. 239  
SL. No. 274  
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ  
ದಾಖಲೆ ಸಂಖ್ಯೆ: 30/6

ಆರ್ಟಿ. ಡಿ.ಡಿ / TS / 2018 / 134 ದಿನಾಂಕ : 30.10.2018  
ರೂ. 15.00 lakhs (Fifteen lakhs only)  
ಗೃಹ ಅಂಚು ಪಟ್ಟಿಗೆ ಅಂಚು ಮಂಜೂರಾತಿ ನೀಡಿದೆ  
ಅಂಚು : 4/4  
SL. No. : 228  
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು  
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಖಲೆ ವಿಭಾಗ  
ದಾಖಲೆ ಸಂಖ್ಯೆ: 30/6

Name of well:- Improvements to feed (Rain  
Foot bath 1<sup>st</sup> & 2<sup>nd</sup> cross Ashok nagara  
in bagalagante well no-14

AN 6

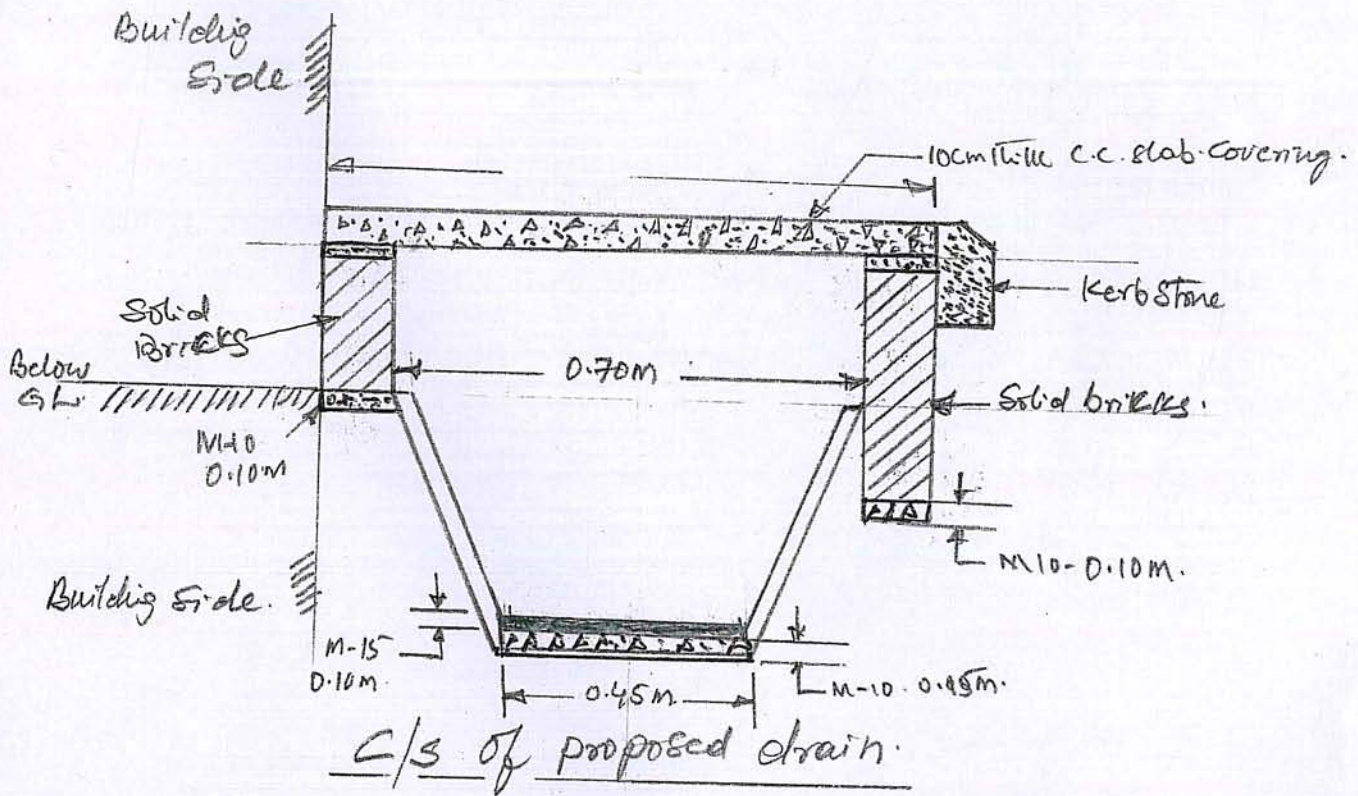


me

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಧೀನದಲ್ಲಿ

ಇ. ದಾಸರಕಟ್ಟೆ ಉಪ ವಿಭಾಗ  
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ  
ಬಾಗಲಗುಂಪೆ, ಬೆಂಗಳೂರು - 560 073

Name of work:- Improvements to Road, drain  
 foot bath I<sup>st</sup> & 2<sup>nd</sup> class roads at Ashok (5)  
 Nagar in Bengaluru used no - 14



for no

for

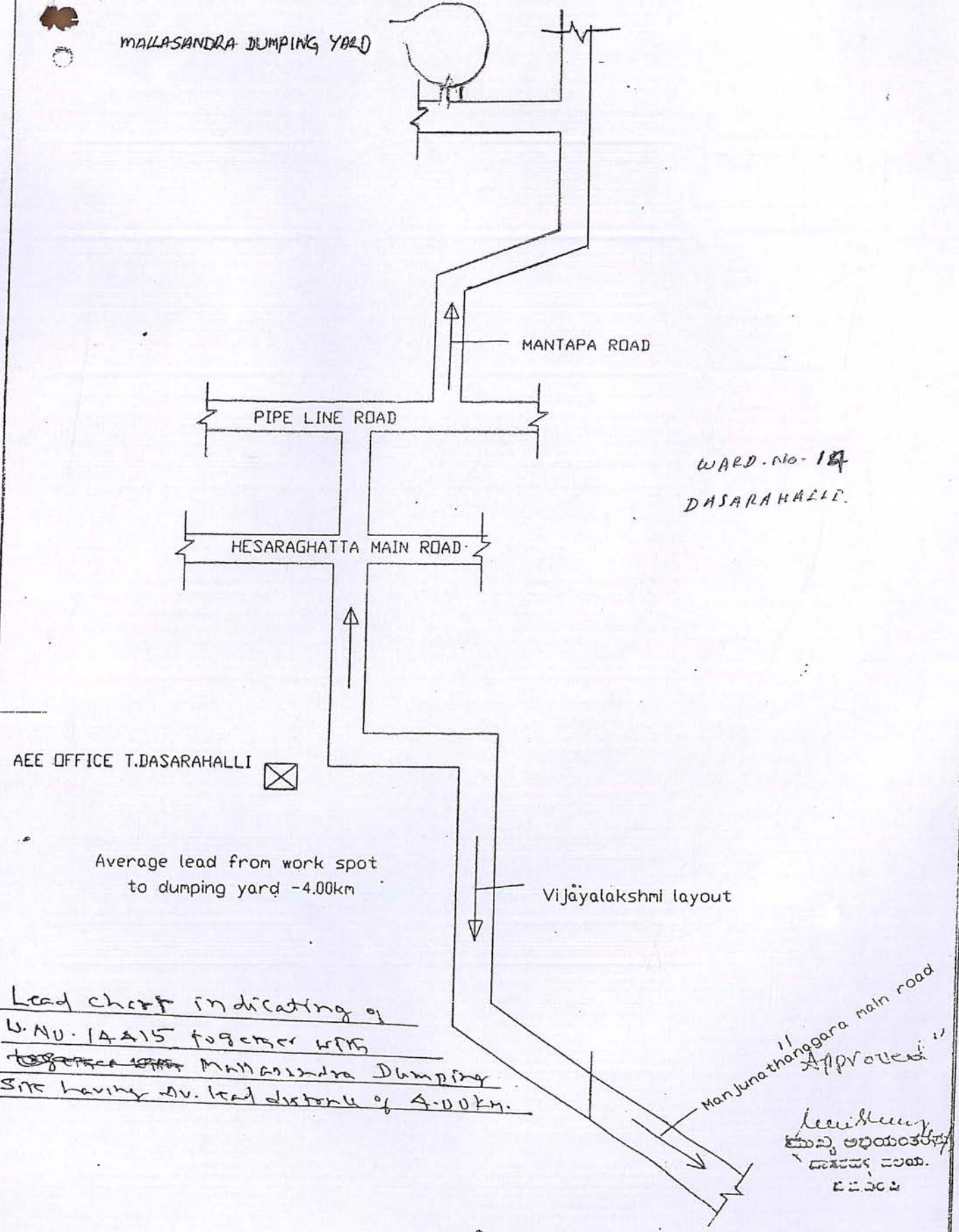
ಸಹಾಯಕ ಪಂಚಾಯತ್ ಅಧ್ಯಕ್ಷರು  
 ಅ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ  
 ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ  
 ಚಾಣಕಿಯಡಿ, ಬೆಂಗಳೂರು - 560 073

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*He*

560 075 - பண்பாட்டுத் துறை  
கலை, பொழுதுபோக்கு, விளையாட்டுத் துறை  
பண்பாட்டுத் துறை

# LEAD CHART FOR TRANSPORTING SILT FROM WORK SPOT TO DUMPING YARD



Average lead from work spot to dumping yard - 4.00km

Lead chart indicating of U.NO. 14 & 15 together with ~~together with~~ Mallasandra Dumping Site having av. lead distance of 4.00km.

Monjunathargara main road  
Approved  
[Signature]  
[Signature]  
[Signature]

[Signature]  
Assist. Engineer  
Ward no.14 & 15

[Signature]  
Assist. Executive Engineer  
T.Dasarahalli Sub Division  
BBMP

[Signature]  
Executive Engineer  
Dasarahalli Division-1  
BBMP